

Title (en)
SKIN DRESSING HAVING SENSOR FOR PRESSURE ULCER PREVENTION

Title (de)
HAUTVERBAND MIT SENSOR ZUR DRUCKGESCHWÜRVERHÜTUNG

Title (fr)
PANSEMENT DOTÉ D'UN CAPTEUR POUR LA PRÉVENTION D'ESCARRE DE DÉCUBITUS

Publication
EP 3695778 A1 20200819 (EN)

Application
EP 20155969 A 20200206

Priority
US 201962804317 P 20190212

Abstract (en)
A system for detecting pressure sores includes an artificial skin configured to be coupled to a patient's skin. The artificial skin includes a substrate and a strain sensor configured to detect deformation of the substrate. A transmitter is configured to transmit signals indicative of the deformation of the substrate. A control system is configured to receive the signals from the transmitter. The control system includes a timer to track a period of time that the substrate is deformed.

IPC 8 full level
A61B 5/00 (2006.01); **A61F 13/00** (2006.01); **B25J 13/08** (2006.01); **G01L 1/22** (2006.01); **G06F 3/01** (2006.01)

CPC (source: EP US)
A61B 5/0004 (2013.01 - US); **A61B 5/447** (2013.01 - US); **A61B 5/6811** (2013.01 - US); **A61B 5/6813** (2013.01 - EP); **A61B 5/6885** (2013.01 - EP); **A61B 5/746** (2013.01 - US); **G01L 1/205** (2013.01 - EP); **A61B 2562/0261** (2013.01 - US); **A61B 2562/04** (2013.01 - US); **A61B 2562/164** (2013.01 - US); **A61B 2562/168** (2013.01 - US); **A61F 13/00051** (2013.01 - EP)

Citation (applicant)
US 9841331 B2 20171212 - WOOD ROBERT J [US], et al

Citation (search report)
• [X] US 2014238153 A1 20140828 - WOOD ROBERT J [US], et al
• [A] US 2017176167 A1 20170622 - KELLER SEAN JASON [US], et al
• [A] WO 2015073944 A2 20150521 - HARVARD COLLEGE [US]
• [X] YONG-LAE PARK ET AL: "Soft artificial skin with multi-modal sensing capability using embedded liquid conductors", 2011 IEEE SENSORS PROCEEDINGS : LIMERICK, IRELAND, 28 - 31 OCTOBER 2011, IEEE, PISCATAWAY, NJ, 28 October 2011 (2011-10-28), pages 81 - 84, XP032308378, ISBN: 978-1-4244-9290-9, DOI: 10.1109/ICSENS.2011.6127228
• [X] YONG-LAE PARK ET AL: "Design and Fabrication of Soft Artificial Skin Using Embedded Microchannels and Liquid Conductors", IEEE SENSORS JOURNAL, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 12, no. 8, 1 August 2012 (2012-08-01), pages 2711 - 2718, XP011447337, ISSN: 1530-437X, DOI: 10.1109/JSEN.2012.2200790

Cited by
GB2603468A; GB2603468B; US11953387B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3695778 A1 20200819; EP 3695778 B1 20220810; US 11478185 B2 20221025; US 2020253539 A1 20200813

DOCDB simple family (application)
EP 20155969 A 20200206; US 202016743089 A 20200115